

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
17 February 2005 (17.02.2005)

PCT

(10) International Publication Number
WO 2005/014583 A1

(51) International Patent Classification⁷: **C07D 403/06**

(21) International Application Number:
PCT/KR2004/001996

(22) International Filing Date: 9 August 2004 (09.08.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2003-0055590 12 August 2003 (12.08.2003) KR

(71) Applicant (for all designated States except US): **KOREA RESEARCH INSTITUTE OF CHEMICAL TECHNOLOGY** [KR/KR]; #100, Jang-dong, Yuseong-gu, Daejeon 305-343 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KIM, Bum Tae** [KR/KR]; Expo Apt. 102-505, #464-1, Jeonmin-dong, Yuseong-gu, Daejeon 305-761 (KR). **MIN, Yong Ki** [KR/KR]; Nuri Apt. 109-804, Wolpyung-dong, Seo-gu, Daejeon 302-280 (KR). **LEE, Yeon Soo** [KR/KR]; Hanmaru Apt. 7-302, Dunsan-dong, Seo-gu, Daejeon 302-773

(KR). **PARK, No Kyun** [KR/KR]; Kyungnam Apt. 111-302, #193, Doma-2-dong, Seo-gu, Daejeon 302-162 (KR). **KIM, Woo Jung** [KR/KR]; #810-2, Jungri-1-ri, Euiseong-eup, Euiseong-gun, Kyungsangbuk-do 769-803 (KR).

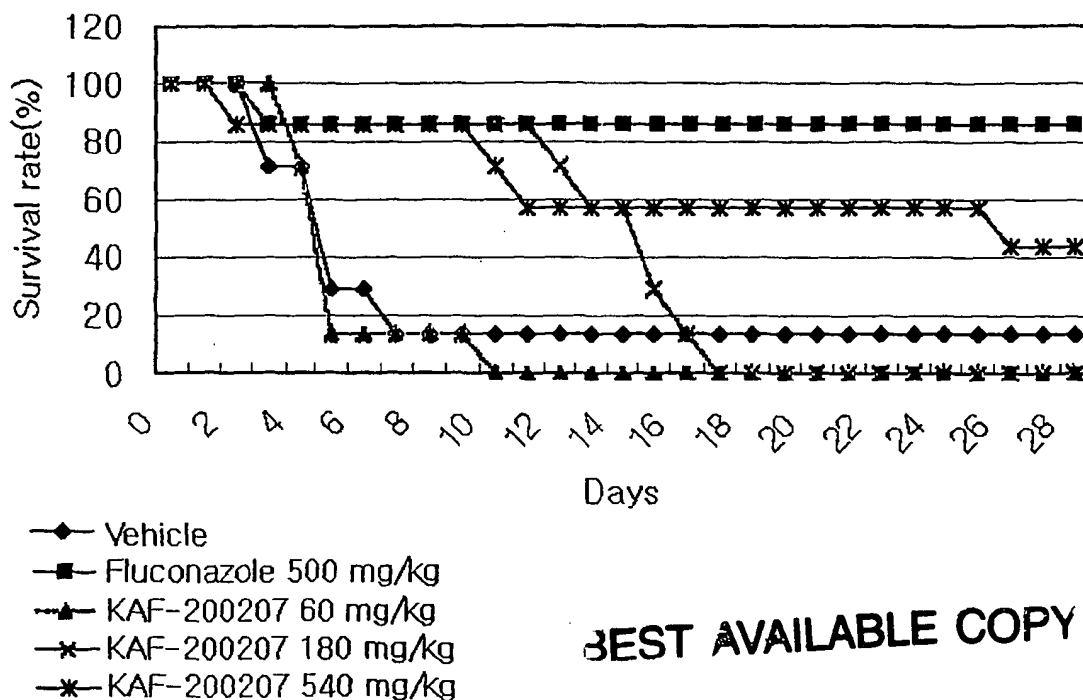
(74) Agents: **JANG, Seongku** et al.; 19th Fl., KEC Building, #275-7 Yangjae-dong, Seocho-ku, Seoul 137-130 (KR).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: ANTIFUNGAL AZOLE DERIVATIVES HAVING A FLUOROVINYL MOIETY AND PROCESS FOR THE PREPARATION THEREOF



BEST AVAILABLE COPY

(57) Abstract: An azole derivative of formula (I) having a fluorovinyl moiety or a pharmaceutically acceptable salt thereof is superior to the conventional antifungal drugs in antifungal activity against a wide spectrum of pathogenic fungi, and has advantageously



SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Published:

— with international search report

BEST AVAILABLE COPY